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Attorney Docket No.: 11145-023US1

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Leif Andersson et al. Art Unit : Unknown  
Serial No. : 10/070,794 Examiner : Unknown  
Filed : March 8, 2002  
Title : VARIANTS OF THE GAMMA CHAIN OF AMPK, DNA SEQUENCES  
ENCODING THE SAME, AND USES THEREOF

Commissioner for Patents  
Washington, D.C. 20231

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (2 pages);
3. Copies of Cited References (36);
4. Copy of International Search Report (5 pages); and
5. A Return Postcard.

Please date stamp and mail the enclosed postcard.

Please apply any charges or credits to Deposit Account No. 06-1050.

Date:

10/7/02

Respectfully submitted,

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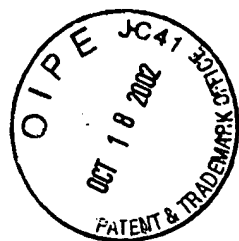
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INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed. A copy of a communication from a foreign patent office in a counterpart application is also enclosed.

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: \_\_\_\_\_

10/7/02

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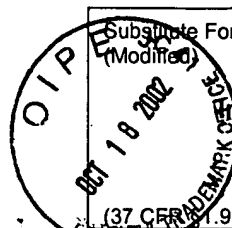
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Trisha J. Anderson

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 Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 11145-023US1	Application No. 10/070,794
	<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)			Applicant Leif Andersson et al.
				Filing Date March 8, 2002

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AB	WO 97/25341	07/17/97	PCT				
	AC	WO 98/58052	12/23/98	PCT				

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AD	UniGene Sequence No. CYP27A1
	AE	UniGene Sequence No. KIAA0173
	AF	GenBank Accession No. M30470
	AG	GenBank Accession No. U42412
	AH	GenBank Accession No. W15439
	AI	GenBank Accession No. W94830
	AJ	GenBank Accession No. AA018675
	AK	GenBank Accession No. AA178898
	AL	GenBank Accession No. AF036535
	AM	GenBank Accession No. AF094764
	AN	GenBank Accession No. AF214519
	AO	GenBank Accession No. AF214520
	AP	GenBank Accession No. AJ249976
	AQ	Bergeron et al., "Effect of AMPK activation on muscle glucose metabolism in conscious rats," <u>Am. J. Physiol.</u> , 276(5):E938-E944
	AR	Cheung et al., "Characterization of AMP-activated protein kinase $\gamma$ -subunit isoforms and their role in AMP binding," <u>Biochem. J.</u> , 2000, 346:659-669
	AS	Enfält et al., "Estimated Frequency of the RN <sup>-</sup> Allele in Swedish Hampshire Pigs and Comparison of Glycolytic Potential, Carcass Composition, and Technological Meat Quality Among Swedish Hampshire, Landrace, and Yorkshire Pigs," <u>J. Anim. Sci.</u> , 1997, 75:2924-2935
	AT	Estrade et al., "Glycogen Hyperaccumulation in White Muscle Fibres of RN <sup>-</sup> Carrier Pigs. A Biochemical and Ultrastructural Study," <u>Comp. Biochem. Physiol.</u> , 1993, 104B(2):321-326

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified) OCT 18 2002 U.S. DEPT. OF COMMERCE PATENT & TRADEMARK OFFICE (b)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 11145-023US1	Application No. 10/070,794
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	Applicant Leif Andersson et al.		Filing Date March 8, 2002 Group Art Unit Unknown

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AU	Hardie et al., "The Amp-Activated/SNF1 Protein Kinase Subfamily: Metabolic Sensors of the Eukaryotic Cell?" <u>Annu. Rev. Biochem.</u> , 1998, 67:821-855
	AV	Hayashi et al., "Evidence for 5' AMP-Activated Protein Kinase Mediation of the Effect of Muscle Contraction on Glucose Transport," <u>Diabetes</u> , 1998, 47:1369-1373
	AW	Hillier et al., "The WashU-Merck EST Project," <u>EMBL Database</u> , Acc. No. W94830, July 1996, XP002130595
	AX	Hillier et al., "WashU-NCI human EST Project," <u>EMBL Database</u> , Acc. No. AA178898, January 1997, XP002130593
	AY	Kemp et al., "Dealing with energy demand: the AMP-activated protein kinase," <u>TIBS</u> , 1999, 24:22-25
	AZ	Le Roy et al., "Evidence for a new major gene influencing meat quality in pigs," <u>Genet. Res. Camb.</u> , 1990, 55:33-40
	AAA	Looft et al., "Mapping the porcine <i>RN</i> gene to chromosome 15," <u>Genet. Sel. Evol.</u> , 1996, 28:437-442
	ABB	Mariani et al., "A major locus ( <i>RN</i> ) affecting muscle glycogen content is located on pig Chromosome 15," <u>Mamm. Genome</u> , 1996, 7:52-54
	ACC	Milan et al., "Accurate mapping of the "acid meat" <i>RN</i> gene on genetic and physical maps of pig Chromosome 15," <u>Mamm. Genome</u> , 1996, 7:47-51
	ADD	Milan et al., "A Mutation in <i>PRKAG3</i> Associated with Excess Glycogen Content in Pig Skeletal Muscle," <u>Science</u> , 2000, 288:1248-1251
	AEE	Monin and Sellier, "Pork of Low Technological Quality with a Normal Rate of Muscle pH Fall in the Immediate Post-Mortem Period: The Case of the Hampshire Breed," <u>Meat Science</u> , 1985, 13:49-63
	AFF	Monin et al., "Effects of the <i>RN</i> Gene on Some Traits of Muscle and Liver in Pigs," 38 <sup>th</sup> International Congress of Meat Science and Technology, August 23-28, 1992, Clermont-Ferrand, France, Proceedings, Volume 3, pp. 391-394
	AGG	Robic et al., "A radiation hybrid map of the <i>RN</i> region in pigs demonstrates conserved gene order compared with the human and mouse genomes," <u>Mamm. Genome</u> , 1999, 10:565-568
	AHH	Sun et al., "Human chromosome 3 and pig chromosome 13 show complete synteny conservation but extensive gene-order differences," <u>Cytogenet. Cell Genet.</u> , 1999, 85:273-278
	AII	Terwilliger, "A Powerful Likelihood Method for the Analysis of Linkage Disequilibrium between Trait Loci and One or More Polymorphic Marker Loci," <u>Am. J. Hum. Genet.</u> , 1995, 56:777-787
	AJJ	Treadway et al., "Enhanced Peripheral Glucose Utilization in Transgenic Mice Expressing the Human GLUT4 Gene," <u>J. Biol. Chem.</u> , 1994, 269(47):29956-29961
	AKK	Waterston, "Homo sapiens chromosome unknown clone NH0459119," <u>EMBL Database</u> , Acc. No. AC009974, September 1999, XP002130594

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